

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

copy to J.

LEASE DESIGNATION AND SERIAL NO.
NM 0149954 & NM 09003

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

Box 1031, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

660' FNL & 1880' FWL Section 23

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

11,500

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3540 GL Estimated

22. APPROX. DATE WORK WILL START*

Upon approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

See Prognosis and plats attached.

RECEIVED

NOV 30 1965

O. C. C.
ARTESIA, OFFICERECEIVED
NOV 29 1965
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

J. F. Carnes

J. F. Carnes

TITLE

District Prod. Foreman

DATE

11-26-65

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

NOV 29 1965

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

**N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-4-65

All distances must be from the outer boundaries of the Section.

Operator TENNECO OIL COMPANY			Lease JONES F FEDERAL COMMUNITY		Well No. 1
Unit Letter C	Section 23	Township 19 SOUTH	Range 31 EAST	County EDDY	
Actual Footage Location of Well: 1380 feet from the WEST line and 660 feet from the NORTH line					
Ground Level Elev. 3740 M	Producing Formation Stimpson Reef	Pool Lusk Stream	Dedicated Acreage: 160 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

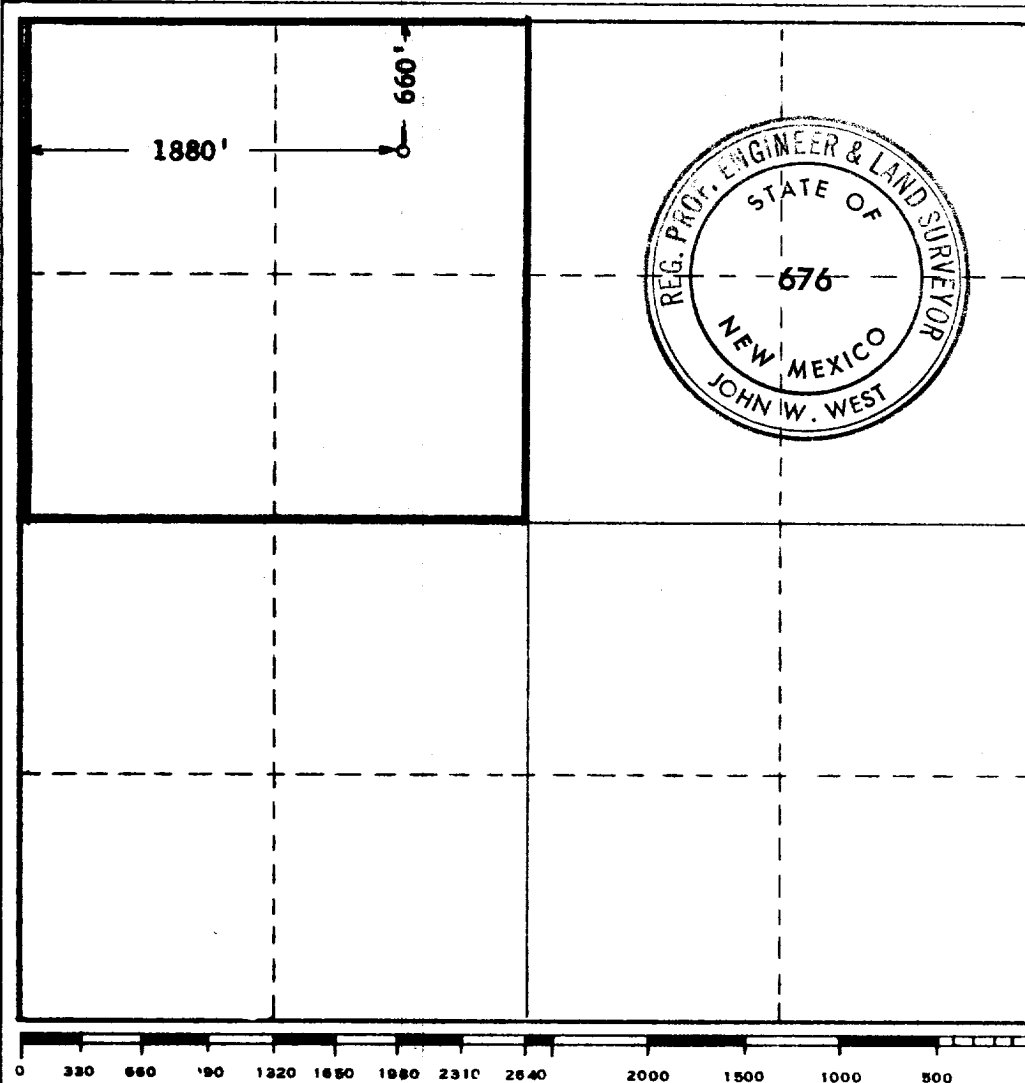
RECEIVED

NOV 30 1965

☒ Yes ☐ No If answer is "yes," type of consolidation **Communitization**

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) **O. C. C. Western Office**

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name **J. F. Carmona** **J. F. Carmona**

Position **District Production Foreman**

Company **Tenneco Oil Company**

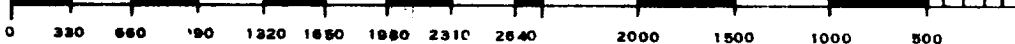
Date **November 26, 1965**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
Nov. 20, 1965

Registered Professional Engineer
and/or Land Surveyor

John W. West
Certificate No. **676**



TECHNICO OIL COMPANY

DRILLING PROGRAM

MIDLAND DISTRICT

SOUTHWESTERN DIVISION

LEASE: Jones "F" Federal Com.

WELL: No. 1

FIELD: Lusk Strawn

STATE: New Mexico

LOCATION: 660' FNL & 1880' FWL, Section 23, T-19-S, R-31-E, Eddy County, N.M.

PROJECTED TD: 11,500'

TYPE OF WELL:

EST. ELEV.: 3540' RECEIVED

NOV 20 1945

DRILLING, CASING AND CEMENTING PROGRAM

1. Drill 17-1/2" hole to 700'± (into Anhydrite).
2. Cement 13-3/8", 48#/ft., H-40, ST&C Casing at 700'± with sufficient 50-50 Incor Pozmix w/2% gel and 2% CaCl₂ and tail in with 100 sx Class "C" w/2% CaCl₂ to circulate. Run Bar centralizers on float shoe and bottom two joints. Use a guide shoe and insert float.
3. If float holds, release pressure immediately, center 13-3/8" casing and nipple up as soon as possible. Test casing to 1000 psi for 30 min. and drill out.
4. Drill 11" hole to 4,000'±. NOTE: Loss of circulation may be encountered between 2,600' and 3,500'. If severe at this location, hole may be dry drilled to intermediate casing point. Do not exceed 20,000# bit weight and 60 RPM until first three collars are below casing shoe.
5. At intermediate point, run 8-5/8" casing as follows: 0 - 4000' 32#/ft., J-55, ST&C Use a guide shoe with insert float in second collar. Use weld on bar centralizers on shoe and first two collars. Run a DV Packer at a point below the Yates producing section and above the lost circulation zone. The base of the Yates is estimated at 2600' and the lost circulation zone at 2670' in this well.
6. Cement in two stages as follows: 1st Stage: 200 sx Incor containing 2% CaCl₂
2nd Stage: 50 sx 50-50 Incor containing 4% CaCl₂ followed by sufficient 50-50 Incor Pozmix containing 6% gel to reach the base of the salt section at approximately 2130'.
7. If DV tool holds, land casing as cemented, release pressure immediately and nipple up. Run temperature survey after 4 hours. Pressure test DV tool to 1000 psi for 30 min. If o.k., drill out and test 8-5/8" casing to 1000 psi for 30 min. If o.k., drill out with 7-7/8" bit. Do not exceed 20,000# weight and 60 RPM until first three collars are below casing shoe.
8. Drill 7-7/8" hole to 11,500'±.
9. Run 4-1/2" casing as follows: 0-3300': 11.6#/ft., N-80, LT&C
3300-8000': 11.6#/ft., J-55, ST&C
8000-11,400': 11.6#/ft., N-80, LT&C
Use float shoe, differential fill-up collar. Use reciprocating scratchers and centralizers to cover productive interval.

DRILLING, CASING, AND CEMENTING PROGRAM (Cont'd.):

10. Cement with sufficient 50-50 Pozmix S cement with 0.4% HR-4 to cover 1000' above pay zone. Tail in with enough Latex cement to cover 100' above pay zone. Use 2 sx of lime in 10 bbls. water ahead of cement. Add 2 sx sodium bichromate to mud system prior to running casing. Be sure paddle mixer is available for mixing latex cement.
11. If float holds, land casing as cemented, release pressure immediately, nipple up, WOC 8 hrs., run temperature survey, and release rig.

RECEIVED

NOV 20 1961

WELL FLUIDS

1. Surface Hole: 0 - 700': Spud mud with viscosity as needed to clean hole. Use fiber for loss of circulation, if needed.
2. Intermediate; 700-4000': Use saturated brine water. Add water to maintain minimum viscosity needed. If hole gives trouble, lower water loss to 20 cc to run casing.
NOTE: If severe loss of circulation is encountered below 2800', hole will be dry drilled using fresh water to intermediate point. Drilling should not be stopped to combat loss of circulation. If necessary to clean hole before running casing, hole can be cleaned using a slug of mud with sufficient viscosity to move cuttings into caverns.
3. Below Intermediate: 4000-11,100' - Clear water treated with surfactant, some treatment with paper may be required to reduce losses. Lime should be added to keep pH above 10 for corrosion control. If necessary to weight up to control any kicking formation, use brine water to weight up system. Don't mud up until 11,100' is reached.
4. 11,100' - T.D.: Use low solids, CMC system with the following properties:

Weight	8.6 - 8.9
Viscosity	38-42 seconds
Water Loss	10-15 cc

Add chemicals and materials as needed to maintain good hole condition to T.D.

BLowout PREVENTERS

1. Use Series 900 blowout preventers as per Company specifications.
2. When rigging up, test blowout preventer and manifold to full working pressure with cold water, or as specified by Company representative.
3. Operate blowout preventers at least once each day, or as Company representative requires.
4. An active set of drill pipe rams will be required on location at all times while drilling or completing.
5. All choke manifolds, lines and valves will be located at the side of and away from substructure.

DRILL PIPE MEASUREMENTS

1. Drill Pipe will be tallied at all coring, testing, logging and casing points.
2. Strap drill pipe at all casing, testing, coring, logging, points and at T.D.

FORMATION TOPS

Top Anhydrite	660'	1st Sand	8200
Top Salt	800'	2nd Sand	8950
Base Salt	2130'	3rd Sand	9800
Top Yates	2300'	Wolfcamp Lime	10350
Top Seven Rivers	2530'	Cisco Shale	10600
Delaware	4480'	Strawn Lime	11200
Bone Springs	6900'	T.D.	11500

MISCELLANEOUS

1. The AMOEC Daily Drilling Report will be filled out completely and neatly each 8-hour tour. One clear and legible copy will be mailed daily to Tenneco Oil Company.
2. A daily report sheet and a cost sheet will be furnished by the operator for the well. The contractor's tool pusher will keep these forms current and complete. The daily cost, total cumulative cost and cumulative mud cost will be given daily along with the Tenneco morning reports. At the conclusion of the well, the cost forms will be mailed to Tenneco Oil Company, P.O. Box 1031, Midland, Texas.
3. The morning report shall be called to Tenneco's Midland office as soon after 8:00 C.S.T. each weekday morning as practical. Phone number is MU 3-4621, area code 915.
4. For notifications at other than office hours, call:

LOGGING:

Frank Collins OX 4-5777
B. E. Desadier MU 4-5390

EMERGENCIES:

Frank Poole MU 2-3615
A. R. Gibson MU 4-7545
A. W. Lang MU 2-3010

RECEIVED

NOV 30 1965

PREPARED BY:

A. R. Gibson

APPROVED BY:

A. R. Gibson

B. E. Desadier
B. E. Desadier

A. W. Lang
A. W. Lang